

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Original) A channel identifier assigning method of assigning channel identifiers to sectors in a mobile communications system which allows a mobile station communicating with a plurality of base stations to decide sectors the mobile station waits for or communicates with, by using grouped channel identifiers sent from the sectors to the mobile station, said channel identifier assigning method comprising the step of:

assigning channel identifiers belonging to a same group to the sectors in a same base station.

Claim 2. (Original) The channel identifier assigning method as claimed in claim 1, further comprising the step of:

assigning contiguous base stations channel identifiers belonging to other groups.

Claim 3. (Original) A mobile communications system comprising: a mobile station that communicates with a plurality of base stations, and decides sectors the mobile station waits for or communicates with by using grouped channel identifiers sent from sectors to the mobile station,

wherein said mobile communications system assigns channel identifiers belonging to a same group to the sectors in a same base station.

Claim 4. (Original) The mobile communications system as claimed in claim 3, wherein said mobile communications system assigns contiguous base stations channel identifiers belonging to other groups.

Claim 5. (Original) A base station in a mobile communications system allowing a mobile station communicating with a plurality of base stations to decide sectors the mobile station waits for or communicates with, by using a perch channel signal including group channel identifiers and sent from sectors to the mobile station,

wherein said base station assigns its sectors channel identifiers belonging to a same group.

Claim 6. (Original) The base station as claimed in claim 5, wherein said mobile communications system assigns contiguous base stations channel identifiers belonging to other groups.

Claim 7. (Original) A method of searching for a neighboring cell utilizing information sent from sectors to a mobile station in a mobile communications system allowing the mobile station communicating with a plurality of base stations to decide a sector the mobile station waits for or communicates with, by using grouped channel identifiers sent from sectors to the mobile station, said method comprising the steps of:

assigning channel identifiers belonging to a same group to the sectors within a same base station; and

sending from a base station to a visiting mobile station a notification of anyone of channel identifiers assigned to sectors of one of neighboring base stations, and/or a notification of a group number to which the channel identifiers belong.

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Claim 8. (Original) The method of searching for a neighboring cell as claimed in claim 7, wherein the channel identifier notified in the step of sending a notification is a channel identifier of a sector which belongs to the neighboring base station and to which the greatest number of the mobile stations make handover from a current sector.

Claim 9. (Original) A method of searching for a neighboring cell in a mobile communications system allowing the mobile station communicating with a plurality of base stations to decide a sector the mobile station waits for or communicates with, by using grouped channel identifiers sent from sectors to the mobile station, said method comprising the steps of:

assigning channel identifiers belonging to a same group to the sectors within a same base station; and searching for other channel identifiers in the same group as the channel identifier of a sector already-captured by the mobile station, first.

Claim 10. (Original) A mobile communications system allowing the mobile station communicating with a plurality of base stations to decide a sector the mobile station waits for or communicates with, by using grouped channel identifiers sent from sectors to the mobile station, said mobile communications system comprising:

means for assigning channel identifiers belonging to a same group to the sectors within a same base station; and

means for sending from a base station to a visiting mobile station a notification of anyone of channel identifiers assigned to sectors of one of neighboring base stations, and/or a notification of a group number to which the channel identifiers belong.

B) Claim 11. (Original) The mobile communications system as claimed in claim 10, wherein the channel identifier notified by said means for sending a notification is a channel identifier of a sector which belongs to the neighboring base station and to which the greatest number of the mobile stations make handover from a current sector.

Claim 12. (Original) A mobile communications system allowing the mobile station communicating with a plurality of base stations to decide a sector the mobile station waits for or communicates with, by using grouped channel identifiers sent from sectors to the mobile station, said mobile communications system comprising:

means for assigning channel identifiers belonging to a same group to the sectors within a same base station; and

means for searching for other channel identifiers in the same group as the channel identifier of a sector already-captured by the mobile station, first.

Claim 13. (Original) A base station in a mobile communications system allowing the mobile station communicating with a plurality of base stations to decide a sector the

mobile station waits for or communicates with, by using grouped channel identifiers sent from sectors to the mobile station, said base station comprising:

means for assigning channel identifiers belonging to a same group to the sectors within a same base station; and

means for sending from the base station to a visiting mobile station a notification of anyone of channel identifiers assigned to sectors of one of neighboring base stations, and/or a notification of a group number to which the channel identifiers belong.

B) Claim 14. (Original) The base station as claimed in claim 13, wherein the channel identifier notified by said means for sending a notification is a channel identifier of a sector which belongs to the neighboring base station and to which the greatest number of the mobile stations make handover from a current sector.

Claim 15. (Previously Presented) A mobile station of the mobile communications system as defined in claim 3, said mobile station comprising:

means for recording the group of the channel identifier;

means for receiving the channel identifier from the base station; and

means for searching for other channel identifiers in a same group as the channel identifier received by said receiving means belongs to, first.

Claim 16. (Withdrawn) A channel identifier assigning method of assigning channel identifiers to sectors in a mobile communications system which allows a mobile station communicating with a plurality of base stations to decide sectors the mobile station waits for or

communicates with, by using channel identifiers sent from the sectors to the mobile station, said channel identifier assigning method comprising the steps of:

predetermining mapping patterns that bring sector numbers of the sectors into correspondence with channel identifier numbers of the channel identifiers such that each channel identifier belongs to only one of the mapping patterns; and

assigning the channel identifiers by selecting one of the mapping patterns for each base station, and by assigning the channel identifiers to the sectors of the base station according to the selected mapping pattern.

B1 Claim 17. (Withdrawn) The channel identifier assigning method as claimed in claim 16, wherein the step of assigning channel identifier uses different mapping patterns for the base stations contiguous to each other.

Claim 18. (Withdrawn) A mobile communications system which allows a mobile station communicating with a plurality of base stations to decide sectors the mobile station waits for or communicates with, by using channel identifiers sent from sectors to the mobile station, said mobile communications system comprising:

means for predetermining mapping patterns that bring sector numbers of the sectors into correspondence with channel identifier numbers of the channel identifiers such that each channel identifier belongs to only one of the mapping patterns; and

means for assigning the channel identifiers by selecting one of the mapping patterns for each base station, and by assigning the channel identifiers to the sectors of the base station according to the selected mapping pattern.

Claim 19. (Withdrawn) The mobile communications system as claimed in claim 18, wherein said means for assigning channel identifier uses different mapping patterns for the base stations contiguous to each other.

Claim 20. (Withdrawn) A base station of a mobile communications system which allows a mobile station communicating with a plurality of base stations to decide sectors the mobile station waits for or communicates with, by using channel identifiers sent from sectors to the mobile station, said base station comprising:

31 means for predetermining mapping patterns that bring sector numbers of the sectors into correspondence with channel identifier numbers of the channel identifiers such that each channel identifier belongs to only one of the mapping patterns; and

means for assigning the channel identifiers by selecting one of the mapping patterns for each base station, and by assigning the channel identifiers to the sectors of the base station according to the selected mapping pattern.

Claim 21. (Withdrawn) The base station as claimed in claim 20, wherein said means for assigning channel identifier uses different mapping patterns for the base stations contiguous to each other.

Claim 22. (Withdrawn) A method of searching for a neighboring cell utilizing information sent from sectors to a mobile station in a mobile communications system allowing the mobile station communicating with a plurality of base stations to decide a sector the mobile

station waits for or communicates with, by using channel identifiers sent from sectors to the mobile station, said method comprising the steps of:

predetermining mapping patterns that bring sector numbers of the sectors into correspondence with channel identifier numbers of the channel identifiers such that each channel identifier belongs to only one of the mapping patterns;

assigning the channel identifiers by selecting one of the mapping patterns for each base station, and by assigning the channel identifiers to the sectors of the base station according to the selected mapping pattern; and

21 sending from the base station to a visiting mobile station a notification of anyone of channel identifiers assigned to sectors of one of neighboring base stations.

Claim 23. (Withdrawn) The method of searching for a neighboring cell as claimed in claim 22, wherein the channel identifier notified in the step of sending a notification is a channel identifier of a sector which belongs to the neighboring base station and to which the greatest number of the mobile stations make handover from a current sector.

Claim 24. (Withdrawn) The method of searching for a neighboring cell as claimed in claim 22, wherein information notified in the step of sending a notification includes the sector numbers of the sectors of the neighboring base station and/or a mapping pattern number of the mapping pattern to which the channel identifier number belongs.

Claim 25. (Withdrawn) A method of searching for a neighboring cell utilizing information sent from sectors to a mobile station in a mobile communications system allowing

the mobile station communicating with a plurality of base stations to decide a sector the mobile station waits for or communicates with, by using channel identifiers sent from sectors to the mobile station, said method comprising the steps of:

predetermining mapping patterns that bring sector numbers of the sectors into correspondence with channel identifier numbers of the channel identifiers such that each channel identifier belongs to only one of the mapping patterns;

assigning the channel identifiers by selecting one of the mapping patterns for each base station, and by assigning the channel identifiers to the sectors of the base station according to the selected mapping pattern;

B.1 sending from the base station to a visiting mobile station a notification of anyone of channel identifiers assigned to sectors of one of neighboring base stations; and

searching for other channel identifiers in the same group as the channel identifier of a sector already-captured by the mobile station, first.

Claim 26. (Withdrawn) A method of searching for a neighboring cell utilizing information sent from sectors to a mobile station in a mobile communications system allowing the mobile station communicating with a plurality of base stations to decide a sector the mobile station waits for or communicates with, by using channel identifiers sent from sectors to the mobile station, said method comprising the steps of:

predetermining mapping patterns that bring sector numbers of the sectors into correspondence with channel identifier numbers of the channel identifiers such that each channel identifier belongs to only one of the mapping patterns;

assigning the channel identifiers by selecting one of the mapping patterns for each base station, and by assigning the channel identifiers to the sectors of the base station according to the selected mapping pattern;

sending from the base station to a visiting mobile station a notification of anyone of channel identifiers assigned to sectors of one of neighboring base stations; and

searching for a channel identifier first with a number contiguous to the channel identifier in a circular pattern in the mapping pattern to which the channel identifier already captured by the mobile station belongs.

B) Claim 27. (Withdrawn) A mobile communications system that allows the mobile station communicating with a plurality of base stations to decide a sector the mobile station waits for or communicates with, using channel identifiers sent from sectors to the mobile station, and that utilizes information sent from the sectors to the mobile station, said mobile communications system comprising:

means for predetermining mapping patterns that bring sector numbers of the sectors into correspondence with channel identifier numbers of the channel identifiers such that each channel identifier belongs to only one of the mapping patterns;

means for assigning the channel identifiers by selecting one of the mapping patterns for each base station, and by assigning the channel identifiers to the sectors of the base station according to the selected mapping pattern; and

means for sending from the base station to a visiting mobile station a notification of anyone of channel identifiers assigned to sectors of one of neighboring base stations.

Claim 28. (Withdrawn) The mobile communications system as claimed in claim 27, wherein the channel identifier notified by means for sending a notification is a channel identifier of a sector which belongs to the neighboring base station and to which the greatest number of the mobile stations make handover from a current sector.

Claim 29. (Withdrawn) The mobile communications system as claimed in claim 27, wherein information notified by means for sending a notification includes the sector numbers of the sectors of the neighboring base station, and/or a mapping pattern number of the mapping pattern to which the channel identifier number belongs.

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Claim 30. (Withdrawn) A mobile communications system that allows the mobile station communicating with a plurality of base stations to decide a sector the mobile station waits for or communicates with, using channel identifiers sent from sectors to the mobile station, and that utilizes information sent from the sectors to the mobile station, said mobile communications system comprising:

means for predetermining mapping patterns that bring sector numbers of the sectors into correspondence with channel identifier numbers of the channel identifiers such that each channel identifier belongs to only one of the mapping patterns;

means for assigning the channel identifiers by selecting one of the mapping patterns for each base station, and by assigning the channel identifiers to the sectors of the base station according to the selected mapping pattern;

means for sending from the base station to a visiting mobile station a notification of anyone of channel identifiers assigned to sectors of one of neighboring base stations; and

means for searching for other channel identifiers in the same group as the channel identifier of a sector already-captured by the mobile station, first.

Claim 31. (Withdrawn) A mobile communications system that allows the mobile station communicating with a plurality of base stations to decide a sector the mobile station waits for or communicates with, using channel identifiers sent from sectors to the mobile station, and that utilizes information sent from the sectors to the mobile station, said mobile communications system comprising:

B1 means for predetermining mapping patterns that bring sector numbers of the sectors into correspondence with channel identifier numbers of the channel identifiers such that each channel identifier belongs to only one of the mapping patterns;

means for assigning the channel identifiers by selecting one of the mapping patterns for each base station, and by assigning the channel identifiers to the sectors of the base station according to the selected mapping pattern;

means for sending from the base station to a visiting mobile station a notification of anyone of channel identifiers assigned to sectors of one of neighboring base stations; and

means for searching for a channel identifier first with a number contiguous to the channel identifier in a circular pattern in the mapping pattern to which the channel identifier already captured by the mobile station belongs.

Claim 32. (Withdrawn) A base station of a mobile communications system that allows the mobile station communicating with a plurality of base stations to decide a sector the mobile station waits for or communicates with, using channel identifiers sent from sectors to the

mobile station, and that utilizes information sent from the sectors to the mobile station, said base station comprising:

means for predetermining mapping patterns that bring sector numbers of the sectors into correspondence with channel identifier numbers of the channel identifiers such that each channel identifier belongs to only one of the mapping patterns;

means for assigning the channel identifiers by selecting one of the mapping patterns for each base station, and by assigning the channel identifiers to the sectors of the base station according to the selected mapping pattern; and

B.) means for sending from the base station to a visiting mobile station a notification of anyone of channel identifiers assigned to sectors of one of neighboring base stations.

Claim 33. (Withdrawn) The base station as claimed in claim 32, wherein the channel identifier notified by means for sending a notification is a channel identifier of a sector which belongs to the neighboring base station and to which the greatest number of the mobile stations make handover from a current sector.

Claim 34. (Withdrawn) The base station as claimed in claim 32, wherein information notified by means for sending a notification includes the sector numbers of the sectors of the neighboring base station, and/or a mapping pattern number of the mapping pattern to which the channel identifier number belongs.

Claim 35. (Withdrawn) A mobile station of the mobile communications system as defined in claim 18, said mobile station comprising:

means for recording the mapping pattern;

means for receiving the channel identifier from the base station; and

means for searching for other channel identifiers in a same mapping pattern as the channel identifier received by said receiving means belongs to, first.

Claim 36. (Withdrawn) A mobile station of the mobile communications system as defined in claim 18, said mobile station comprising:

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means for recording the mapping pattern;

means for receiving the channel identifier from the base station; and

means for searching for a channel identifier first with a number contiguous to the channel identifier in a circular pattern in the mapping pattern to which the channel identifier received by said receiving means belongs.

Claim 37. (Previously Presented) The channel identifier assigning method as claimed in claim 1, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 38. (Previously Presented) The mobile communications system as claimed in claim 3, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 39. (Previously Presented) The method of searching for a neighboring cell as claimed in claim 7, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 40. (Previously Presented) The base stations as claimed in claim 5, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 41. (Previously Presented) The mobile station as claimed in claim 15, wherein the channel identifier consists of spreading code or a carrier frequency.

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Claim 42. (Previously Presented) The channel identifier assigning method as claimed in claim 1, wherein the channel identifier is included in a perch channel signal.

Claim 43. (Previously Presented) The mobile communications system as claimed in claim 3, wherein the channel identifier is included in a perch channel signal.

Claim 44. (Previously Presented) The method of searching for a neighboring cell as claimed in claim 7, wherein the channel identifier is included in a perch channel signal.

Claim 45. (Previously Presented) The base stations as claimed in claim 5, wherein the channel identifier is included in a perch channel signal.

Claim 46. (Previously Presented) The mobile station as claimed in claim 15, wherein the channel identifier is included in a perch channel signal.

Claim 47. (Previously Presented) A mobile station of the mobile communications system as defined in claim 4, said mobile station comprising:

means for recording the group of the channel identifier;

means for receiving the channel identifier from the base station; and

means for searching other channel identifiers in a same group as the channel identifier received by said receiving means belongs to, first.

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Claim 48. (Previously Presented) The mobile station as claimed in claim 47, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 49. (Previously Presented) The mobile station as claimed in claim 47, wherein the channel identifier is included in a perch channel signal.

Claim 50. (Previously Presented) The method of searching for a neighboring cell as claimed in claim 9, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 51. (Previously Presented) The method of searching for a neighboring cell as claimed in claim 9, wherein the channel identifier is included in a perch channel signal.

Claim 52. (Previously Presented) The mobile station of the mobile communications system as defined in claim 11, said mobile station comprising:

means for recording the group of the channel identifier;

means for receiving the channel identifier from the base station; and

means for searching other channel identifiers in a same group as the channel identifier received by said receiving means belongs to, first.

Claim 53. (Previously Presented) The mobile station as claimed in claim 52, wherein the channel identifier consists of a spreading code or a carrier frequency.

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Claim 54. (Previously Presented) The mobile station as claimed in claim 52, wherein the channel identifier is included in a perch channel signal.

Claim 55. (Previously Presented) A mobile station of the mobile communications system as defined in claim 10, said mobile station comprising:

means for recording the group of the channel identifier;

means for receiving the channel identifier from the base station; and

means for searching other channel identifiers in a same group as the channel identifier received by said receiving means belongs to, first.

Claim 56. (Previously Presented) The mobile station as claimed in claim 55, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 57. (Previously Presented) The mobile station as claimed in claim 55, wherein the channel identifier is included in a perch channel signal.

Claim 58 (Previously Presented) The mobile communications system as claimed in claim 10, wherein the channel identifier consists of a spreading code or a carrier frequency.

B1 Claim 59. (Previously Presented) The mobile communications system as claimed in claim 10, wherein the channel identifier is included in a perch channel signal.

Claim 60. (Previously Presented) A mobile station of the mobile communications system as defined in claim 12, said mobile station comprising:

means for recording the group of the channel identifier;
means for receiving the channel identifier from the base station; and
means for searching other channel identifiers in a same group as the channel identifier received by said receiving means belongs to, first.

Claim 61. (Previously Presented) The mobile station as claimed in claim 60, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 62. (Previously Presented) The mobile station as claimed in claim 60, wherein the channel identifier is included in a perch channel signal.

Claim 63. (Previously Presented) The mobile communications system as claimed in claim 12, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 64. (Previously Presented) The mobile communications system as claimed in claim 12, wherein the channel identifier is included in a perch channel signal.

Claim 65. (Previously Presented) The base stations as claimed in claim 13, wherein the channel identifier consists of a spreading code or a carrier frequency.

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Claim 66. (Previously Presented) The base stations as claimed in claim 13, wherein the channel identifier is included in a perch channel signal.

Claim 67. (Withdrawn) The channel identifier assigning method as claimed in claim 16, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 68. (Withdrawn) The channel identifier assigning method as claimed in claim 16, wherein the channel identifier is included in a perch channel signal.

Claim 69. (Withdrawn) A mobile station of the mobile communications system as defined in claim 19, said mobile station comprising:

means for recording the mapping pattern;

means for receiving the channel identifier from the base station; and

means for searching the other channel identifiers in a same mapping pattern as the channel identifier received by said receiving means belongs to, first.

Claim 70. (Withdrawn) The mobile station as claimed in claim 69, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 71. (Withdrawn) The mobile station as claimed in claim 69, wherein the channel identifier is included in a perch channel signal.

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Claim 72. (Withdrawn) A mobile station of the mobile communications system as defined in claim 19, said mobile station comprising:

means for recording the mapping pattern;

means for receiving the channel identifier from the base station; and

means for searching for a channel identifier first with a number contiguous to the channel identifier in a circular pattern in the mapping pattern to which the channel identifier received by said receiving means belongs.

Claim 73. (Withdrawn) The mobile station as claimed in claim 72, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 74. (Withdrawn) The mobile station as claimed in claim 72, wherein the channel identifier is included in a perch channel signal.

Claim 75. (Withdrawn) The mobile station as claimed in claim 35, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 76. (Withdrawn) The mobile station as claimed in claim 35, wherein the channel identifier is included in a perch channel signal.

Claim 77. (Withdrawn) The mobile station as claimed in claim 36, wherein the channel identifier consists of a spreading code or a carrier frequency.

B) Claim 78. (Withdrawn) The mobile station as claimed in claim 36, wherein the channel identifier is included in a perch channel signal.

Claim 79. (Withdrawn) The mobile communications system as claimed in claim 18, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 80. (Withdrawn) The mobile communications system as claimed in claim 18, wherein the channel identifier is included in a perch channel signal.

Claim 81. (Withdrawn) The base stations as claimed in claim 20, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 82. (Withdrawn) The base stations as claimed in claim 20, wherein the channel identifier is included in a perch channel signal.

Claim 83. (Withdrawn) The method of searching for a neighboring cell as claimed in claim 22, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 84. (Withdrawn) The method of searching for a neighboring cell as claimed in claim 22, wherein the channel identifier is included in a perch channel signal.

Claim 85. (Withdrawn) The method of searching for a neighboring cell as claimed in claim 25, wherein the channel identifier consists of a spreading code or a carrier frequency.

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Claim 86. (Withdrawn) The method of searching for a neighboring cell as claimed in claim 25, wherein the channel identifier is included in a perch channel signal.

Claim 87. (Withdrawn) The method of searching for a neighboring cell as claimed in claim 26, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 88. (Withdrawn) The method of searching for a neighboring cell as claimed in claim 26, wherein the channel identifier is included in a perch channel signal.

Claim 89. (Withdrawn) A mobile station of the mobile communications system as defined in claim 28, said mobile station comprising:

means for recording the mapping pattern;

means for receiving the channel identifier from the base station; and

means for searching the other channel identifiers in a same mapping pattern as the channel identifier received by said receiving means belongs to, first.

Claim 90. (Withdrawn) The mobile station as claimed in claim 89, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 91. (Withdrawn) The mobile station as claimed in claim 89, wherein the channel identifier is included in a perch channel signal.

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Claim 92. (Withdrawn) A mobile station of the mobile communications system as defined in claim 28, said mobile station comprising:

means for recording the mapping pattern;

means for receiving the channel identifier from the base station; and

means for searching for a channel identifier first with a number contiguous to the channel identifier in a circular pattern in the mapping pattern to which the channel identifier received by said receiving means belongs.

Claim 93. (Withdrawn) The mobile station as claimed in claim 92, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 94. (Withdrawn) The mobile station as claimed in claim 92, wherein the channel identifier is included in a perch channel signal.

Claim 95. (Withdrawn) A mobile station of the mobile communications system as defined in claim 29, said mobile station comprising:

means for recording the mapping pattern;
means for receiving the channel identifier from the base station; and
means for searching the other channel identifiers in a same mapping pattern as the channel identifier received by said receiving means belongs to, first.

B) Claim 96. (Withdrawn) The mobile station as claimed in claim 95, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 97. (Withdrawn) The mobile station as claimed in claim 95, wherein the channel identifier is included in a perch channel signal.

Claim 98. (Withdrawn) A mobile station of the mobile communications system as defined in claim 29, said mobile station comprising:

means for recording the mapping pattern;
means for receiving the channel identifier from the base station; and
means for searching for a channel identifier first with a number contiguous to the channel identifier in a circular pattern in the mapping pattern to which the channel identifier received by said receiving means belongs.

Claim 99. (Withdrawn) The mobile station as claimed in claim 98, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 100. (Withdrawn) The mobile station as claimed in claim 98, wherein the channel identifier is included in a perch channel signal.

Claim 101. (Withdrawn) A mobile station of the mobile communications system as defined in claim 27, said mobile station comprising:

means for recording the mapping pattern;

means for receiving the channel identifier from the base station; and

B. / means for searching the other channel identifiers in a same mapping pattern as the channel identifier received by said receiving means belongs to, first.

Claim 102. (Withdrawn) The mobile station as claimed in claim 101, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 103. (Withdrawn) The mobile station as claimed in claim 101, wherein the channel identifier is included in a perch channel signal.

Claim 104. (Withdrawn) A mobile station of the mobile communications system as defined in claim 27, said mobile station comprising:

means for recording the mapping pattern;

means for receiving the channel identifier from the base station; and

means for searching for a channel identifier first with a number contiguous to the channel identifier in a circular pattern in the mapping pattern to which the channel identifier received by said receiving means belongs.

Claim 105. (Withdrawn) The mobile station as claimed in claim 104, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 106. (Withdrawn) The mobile station as claimed in claim 104, wherein the channel identifier is included in a perch channel signal.

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Claim 107. (Withdrawn) The mobile communications system as claimed in claim 27, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 108. (Withdrawn) The mobile communications system as claimed in claim 27, wherein the channel identifier is included in a perch channel signal.

Claim 109. (Withdrawn) A mobile station of the mobile communications system as defined in claim 30, said mobile station comprising:

means for recording the mapping pattern;

means for receiving the channel identifier from the base station; and

means for searching the other channel identifiers in a same mapping pattern as the channel identifier received by said receiving means belongs to, first.

Claim 110. (Withdrawn) The mobile station as claimed in claim 109, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 111. (Withdrawn) The mobile station as claimed in claim 109, wherein the channel identifier is included in a perch channel signal.

Claim 112. (Withdrawn) A mobile station of the mobile communications system as defined in claim 30, said mobile station comprising:

means for recording the mapping pattern;

B.1 means for receiving the channel identifier from the base station; and

means for searching for a channel identifier first with a number contiguous to the channel identifier in a circular pattern in the mapping pattern to which the channel identifier received by said receiving means belongs.

Claim 113. (Withdrawn) The mobile station as claimed in claim 112, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 114. (Withdrawn) The mobile station as claimed in claim 112, wherein the channel identifier is included in a perch channel signal.

Claim 115. (Withdrawn) The mobile communications system as claimed in claim 30, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 116. (Withdrawn) The mobile communications system as claimed in claim 30, wherein the channel identifier is included in a perch channel signal.

Claim 117. (Withdrawn) A mobile station of the mobile communications system as defined in claim 31, said mobile station comprising:

means for recording the mapping pattern;

means for receiving the channel identifier from the base station; and

means for searching the other channel identifiers in a same mapping pattern as the channel identifier received by said receiving means belongs to, first.

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Claim 118. (Withdrawn) The mobile station as claimed in claim 117, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 119. (Withdrawn) The mobile station as claimed in claim 117, wherein the channel identifier is included in a perch channel signal.

Claim 120. (Withdrawn) A mobile station of the mobile communications system as defined in claim 31, said mobile station comprising:

means for recording the mapping pattern;

means for receiving the channel identifier from the base station; and

means for searching for a channel identifier first with a number contiguous to the channel identifier in a circular pattern in the mapping pattern to which the channel identifier received by said receiving means belongs.

Claim 121. (Withdrawn) The mobile station as claimed in claim 120, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 122. (Withdrawn) The mobile station as claimed in claim 120, wherein the channel identifier is included in a perch channel signal.

31 Claim 123. (Withdrawn) The mobile communications system as claimed in claim 31, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 124. (Withdrawn) The mobile communications system as claimed in claim 31, wherein the channel identifier is included in a perch channel signal.

Claim 125. (Withdrawn) The base stations as claimed in claim 32, wherein the channel identifier consists of a spreading code or a carrier frequency.

Claim 126. (Withdrawn) The base stations as claimed in claim 32, wherein the channel identifier is included in a perch channel signal.
